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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

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Sheet	1	of	4	Application Number	10/634,180
				Filing Date	August 5, 2003
				First Named Inventor	Bunker, et al
				Art Unit	1624
				Examiner Name	Deepak R. Rao
				Attorney Docket Number	PC25245A

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
		Country Code ² "Number ⁴ "Kind Code ³ (if known)			
WLR		WO 02/064080	08-22-2002	Andrianjara, et al	
WLR		WO 02/064572	08-22-2002	Andrianjara, et al	
WLR		WO 03/032999	04-24-2003	Bunker, et al	
WLR		WO 01/63244	08-30-2001	Chen, et al	
WLR		WO 00/09485	02-24-2000	McClure, et al	
WLR		WO 01/12611	02-22-2001	Blagg	

Examiner Signature	<u>Mark Ross</u>	Date Considered	3/20/05
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NR		WO 02/34726	05-02-2002	Noe, et al	
		WO 02/34753	05-02-2002	Bronk, et al	
		EP 0935963	08-18-1999	McClure, et al	
		EP 1138680	10-04-2001	Noe	
		WO 99/64400	12-16-1999	Salituro, et al	
✓		EP 1069110 A	01-17-2001	Kimura, et al	

Examiner Signature	<u>Durrak Negi</u>	Date Considered	3/20/05
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NON PATENT LITERATURE DOCUMENTS				
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		<u>International Search Report from PCT/IB 03/09508.</u>		
<i>DR</i>		Billinghurst, et al. "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages Induced by Interleukin-1 and the Selective Inhibition of Type II Collagen Cleavage by Collagenase", <i>Arthritis & Rheumatism</i> , March 2000, vol. 43, No. 3, pp. 664-672.		
		<u>Office Action from 10/264,764 mailed 6.16.03.</u>		
<i>DR</i>		Moy, et al. "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", <i>J. mol. Biol.</i> , (2000), 302, pp. 671-689.		
<i>DR</i>		Lovejoy, et al, "Crystal Structures of MMP-1 and -13 reveal the Structural Basis for Selectivity of Collagenase Inhibitors", <i>Nature Structural Biology</i> , Vol. 6, No. 3, March 1999, pp. 217-221.		
<i>DR</i>		Billinghurst, et al, "Enganced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage", <i>J. Clin. Invest.</i> , April 1997, Vol. 99, No. 7, pp. 1534-1545.		
<i>DR</i>		Chen, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", <i>J. Am. Chem. Soc.</i> , 2000, Vol. 122, pp. 9648-9654.		
<i>DR</i>		Wernicke, et al, "Cloning of Collagenase 3 from the Synovial Membrane and Its Expression in Rheumatoid Arthritis and Osteoarthritis", <i>The Journal of Rheumatology</i> , 1996, Vol. 23, No. 4, pp.590-595.		
<i>DR</i>		Mokrosz, et al, "Structure-activity relationship studies of CNS agents Part 10: 1-Aryl-2-[3-(4-aryl-1-piperazinyl)propyl]-1,4-dihydro-(2 H)-isoquinolones: Two modes of the interaction with the 5-HT receptor site", <i>Pharmazie</i> , 1994, Vol. 49, pp. 328-333.		
<i>DR</i>		Reboul, et al "The New Collagenase, Collagenase-3, Is Expressed and Synthesized by Human Chondrocytes but not by Synoviocytes", <i>J. Clin. Invest.</i> , Vol. 97, No. 9, May 1996 pp.2011-2019.		

Examiner Signature	<i>Deepak Rao</i>	Date Considered	<i>3/20/05</i>
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Sheet	4	of	4	Attorney Docket Number	PC25245A

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<i>DR</i>		Neuhold, et al, "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) induces osteoarthritis in mice", J. Clin. Invest., January 2001, Vol. 107, No. 1, pp. 35-44.		
<i>DR</i>		Mitchell, et al, "Cloning Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., February 1996, Vol. 97, No. 3, pp. 761-768.		
<i>DR</i>		Dahlberg, et al, "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen in Cultured Osteoarthritic Cartilage and Arrest with a Synthetic Inhibitor That Spares Collagenase 1 (Matrix Metalloproteinase 1)", Arthritis & Rheumatism, March 2000, Vol. 43, No. 3, pp. 673-682.		
<i>DR</i>		Freemont, et al, "In situ zymographic localisation of type II collagen degrading activity in osteoarthritic human articular cartilage", Ann. Rheum. Dis., 1999, Vol. 58, pp. 357-365.		

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